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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,365	11/12/2003	Johannes Becker	BECKER I	6816
47396 · HITT GAINES	7590 03/02/2007 S. P.C.		EXAMINER	
AGERE SYSTEMS INC. PO BOX 832570 RICHARDSON, TX 75083			DEBNATH, SUMAN	
			ART UNIT	PAPER NUMBER
	,	2135		
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SHORTENED STATUTORY PERIOD OF RESPONSE		NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		03/02/2007	FLECTRONIC	

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	Application No.	Applicant(s)			
	10/706,365	BECKER, JOHANNES			
Office Action Summary	Examiner	Art Unit			
	Suman Debnath	2135			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
Responsive to communication(s) filed on  2a) ☐ This action is FINAL.					
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-20 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-20 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application Papers					
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on 12 November 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate			

#### **DETAILED ACTION**

1. Claims 1-20 are pending in this application.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4, 5, 8, 9, 11, 12, 15, 16, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warren (Patent Number: US 6,381,721 B1) in view of Shinmori (Patent Number: US 7,058,856 B2).
- 4. As to claim 1, Warren discloses an integrated circuit (IC) having a testing port (FIG. 1, column 3, lines 42-50), a system for securing said IC as against subsequent reprogramming (abstract), comprising: port inhibit circuitry located on said IC (FIG. 3, column 8, lines 20-50, "...a receive signal inhibitor 408 which inhibits the receive buffer from allowing any further incoming data..."); and port access circuitry (FIG. 1, column 3, lines 42-50, "test access port controller"), coupled to said testing port (FIG. 1), that enables said testing port based on said configuration (column 11, lines 53-64 and column 9, lines 33-47).

Warren doesn't explicitly disclose inhibit circuitry that modifiable to achieve a configuration that determines an extent to which the testing port is enabled. However,

Application/Control Number: 10/706,365

Art Unit: 2135

Shinmori discloses inhibit circuitry that modifiable to achieve a configuration that determines an extent to which the testing port is enabled (column 3, lines 15-25 and lines 40-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren by modifying inhibit circuitry to achieve a configuration that determines an extent to which the testing port is enabled as taught by Shinmori in order to prevent the programmed the contents being read out by a third party.

5. As to claim 8, Warren discloses an integrated circuit (IC) having a testing port (FIG. 1, column 3, lines 42-50), a method of securing said IC as against subsequent reprogramming (abstract), comprising: port inhibit circuitry located on said IC (FIG. 3, column 8, lines 20-50); and enabling said testing port based on the configuration (column 11, lines 53-64 and column 9, lines 33-47).

Warren doesn't explicitly disclose modifying port inhibit circuitry to achieve a configuration that determines an extent to which said testing port is enabled. However Shinmori discloses modifying port inhibit circuitry to achieve a configuration that determines an extent to which said testing port is enabled (column 3, lines 15-25 and lines 40-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren by modifying port inhibit circuitry to achieve a configuration that determines an extent to which said testing

port is enabled as taught by Shinmori in order to prevent the programmed contents from being read out by a third party.

6. As to claim 15, an electronic device, comprising: an integrated circuit (IC) (abstract), including: a testing port (FIG. 1, column 3, lines 42-50), port inhibit circuitry located on said IC (FIG. 3, column 8, lines 20-50), and port access circuitry (FIG. 1, column 3, lines 42-50), coupled to said testing port (FIG. 1), that enables said testing port based on said configuration (column 11, lines 53-64 and column 9, lines 33-47).

Warren doesn't explicitly disclose modifiable inhibit circuitry to achieve a configuration that determines an extent to which said testing port is enabled. However, Shinmori discloses modifiable inhibit circuitry to achieve a configuration that determines an extent to which said testing port is enabled (column 3, lines 15-25 and lines 40-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren by modifiable inhibit circuitry to achieve a configuration that determines an extent to which said testing port is enabled as taught by Shinmori in order to prevent the programmed contents from being read out by a third party.

7. As to claims 2, 9 and 16, Warren doesn't explicitly disclose that the testing port is a Joint Test Action Group (JTAG) port. However, Shinmori discloses that the testing port is a Joint Test Action Group (JTAG) port (column 1, lines 42-48).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren by including testing port as a Joint Test Action Group (JTAG) port as taught by Shinmori in order to make the product as global industry standard by participating in the development of IEEE-SA.

8. As to claims 4, 11 and 18, Warren doesn't explicitly disclose wherein said modifying comprises permanently modifying said port inhibit circuitry prior to delivering said IC to a user thereof. However, Shinmori discloses wherein said modifying comprises permanently modifying said port inhibit circuitry prior to delivering said IC to a user thereof (column 3, lines 15-25 and lines 40-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren by permanently modifying the port inhibit circuitry prior to delivering the IC as taught by Shinmori in order to prevent the programmed contents from being read out by a third party.

- 9. As to claims 5, 12 and 19, the extent is selected from the group consisting of: fully enabled, only partially disabled, and completely disabled (column 8, lines 20-50 and lines 32-60).
- 10. Claims 6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warren in view of Shinmori and further in view of Bos et al. (Patent No.: US 7,124,340 B1).

Art Unit: 2135

11. As to claims 6 and 13, neither Warren nor Shinmori explicitly disclose wherein the testing port comprises a direct loopback between input and output pins thereof.

However, Bos discloses wherein the testing port comprises a direct loopback between input and output pins thereof (column 7, lines 60-67 and column 8, lines 1-10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren and Shinmori by including a direct loopback between input and output pins thereof as taught by Bos in order to isolate defects within the circuit by supporting loopback testing.

- 12. Claims 3, 10 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warren in view of Shinmori and further in view of Parulkar (Patent No.: US 6,769,081 B1).
- 13. As to claims 3, 10 and 17, Warren discloses inhibit circuitry comprises an inhibit bit (column 8, lines 20-50). Neither Warren nor Shinmori explicitly discloses the inhibit bit in a one-time programmable register. However, Parulkar discloses bits in a one-time programmable register (column 1, lines 60-67 and column 2, lines 1-7).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren and Shinmori by including a one-time programmable register in order to "program a fuse to de-activate the faulty half and to reconfigure the memory (Parulkar)"

Application/Control Number: 10/706,365

Art Unit: 2135

- 14. Claims 7, 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warren in view of Shinmori and further in view of Hansford (Patent No.: US 6,522,100 B2).
- 15. As to claims 7 and 14, neither Warren nor Shinmori explicitly disclose wherein the IC is a baseband chip of a mobile communication device. However, Hansford discloses wherein the IC is a baseband chip of a mobile communication device (column 1, lines 45-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren and Shinmori by including a baseband chip of a mobile communication device as taught by Hansford in order to receive a frequency signal or frequency information.

16. As to claim 20, neither Warren nor Shinmori explicitly disclose the electronic device wherein said electronic device is selected from the group consisting of: a mobile telephone, a PDA, an MDA, an MP3 player, and a set-top box (column 1, lines 45-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Warren and Shinmori by including a electronic device from the group consisting of: a mobile telephone, a PDA, an MDA, an MP3 player, and a set-top box as taught by Hansford in order to receive a frequency signal or frequency information.

#### Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See accompanying PTO 892.

Mack et al. (Patent Number: 5,689,516) discloses a programmable JTAG-disable bit that can be selectively programmed to disable the JTAG circuitry.

Lee et al. (Patent Number: 5,764,076) discloses a circuit for partially reprogramming an operational programmable logic device.

Leung et al. (Patent No.: US 6,425,046 B1) discloses registers incorporating onetime or non-volatile programmable elements.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suman Debnath whose telephone number is 571 270 1256. The examiner can normally be reached on 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on 571 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number: 10/706,365

Art Unit: 2135

Page 9

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SD

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